

Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 23, 2017

Mike Butler

EPCOR Water

PO Box 370

Edgewood, NM 87015

TEL: (505) 228-6233

FAX (575) 762-1642

RE: EWWTP OrderNo.: 1701A55

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/25/2017 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued February 16, 2017.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

Bulled

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1701A55

Date Reported: 2/23/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: EWWTP Collection Date: 1/25/2017 11:00:00 AM

Lab ID: 1701A55-001 Matrix: AQUEOUS Received Date: 1/25/2017 2:55:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed
SM5210B: BOD					Analyst: SMS
Biochemical Oxygen Demand	DO Depletion<2.0	2.0	mg/L	1	1/31/2017 11:37:00 AM
SM 9223B FECAL INDICATOR	: E. COLI MPN				Analyst: tnc
E. Coli	<1	1.000	CFU/100ml	1	1/26/2017 4:43:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701A55

23-Feb-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-29898

SampType: MBLK

TestCode: SM5210B: BOD

%REC LowLimit

TestCode: SM5210B: BOD

LowLimit

Client ID: **PBW** Batch ID: 29898

RunNo: 40513

Prep Date: 1/26/2017 Analysis Date: 1/31/2017 PQL

2.0

SeqNo: 1269552

Units: mg/L HighLimit

RPDLimit

Qual

Analyte **Biochemical Oxygen Demand**

Sample ID MB-29898

PBW

Result

ND

SampType: MBLK Batch ID: 29898

Analysis Date: 1/31/2017

RunNo: 40513

SeqNo: 1269553

Units: mg/L

%RPD

Analyte

Client ID:

Prep Date:

Result

1/26/2017

SPK value SPK Ref Val **PQL**

SPK value SPK Ref Val

%REC

HighLimit

%RPD **RPDLimit** Quai

Biochemical Oxygen Demand

ND 2.0

TestCode: SM5210B: BOD

Sample ID LCS-29898 Client ID: LCSW

SampType: LCS

Batch ID: 29898

RunNo: 40513

Units: mg/L

Analyte

Prep Date:

1/26/2017

Analysis Date: 1/31/2017 Result

200

SeqNo: 1269554 %REC

HighLimit LowLimit

%RPD

RPDLimit

Qual

Biochemical Oxygen Demand

Biochemical Oxygen Demand

Sample ID LCSD-29898 LCSS02

SampType: LCSD

PQL

2.0

2.0

TestCode: SM5210B: BOD RunNo: 40513

Prep Date: 1/26/2017

Batch ID: 29898

SPK value SPK Ref Val

SeqNo: 1269555

64.5

Units: mg/L

Qual R

Analyte

Client ID:

Resutt PQL

130

Analysis Date: 1/31/2017

198.0

198.0

%REC SPK value SPK Ref Val

0

LowLimit 59.3

HighLimit 123 %RPD 44.7

RPDLimit

29.9

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND RPD outside accepted recovery limits

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

Ε Value above quantitation range

J Analyte detected below quantitation limits Page 2 of 3

P Sample pH Not In Range

Reporting Detection Limit RL Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1701A55 23-Feb-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-29893

1/25/2017

SampType: MBLK

Analysis Date: 1/26/2017

TestCode: SM 9223B Fecal Indicator: E. coli MPN

Client ID: PBW

BW Bato

Batch ID: 29893 RunNo: 40327

.....

SegNo: 1264095 Units: CFU/100ml

Analyte

Prep Date:

Result PQL

SPK value SPK Ref Val %REC LowLimit

wLimit HighLimit

%RPD R

RPDLimit

Qual

E. Coli

<1 1.000

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 3 of 3



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

EPCOR WATER Work Order Number: 1701A55 RaptNo: 1 Client Name: Received by/date: Logged By: 1/25/2017 2:55:00 PM Andy Jansson 1/25/17 184 Iansson Completed By: *|5*55 Reviewed By: Chain of Custody No 🗆 Not Present Yes 🗌 1 Custody seals intact on sample bottles? No 🗆 Yes 🔽 Not Present 2. is Chain of Custody complete? 3 How was the sample delivered? Client Log in No 🗆 NA 🗆 Yes V 4. Was an attempt made to cool the samples? NA \square No 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C Yes Samples were collected the same day and chilied. No 🗌 Yes 🔽 Sample(s) in proper container(s)? Yes 🗹 No 🗆 7. Sufficient sample volume for indicated test(s)? No \square Yes 🔽 8. Are samples (except VOA and ONG) properly preserved? NA 🗍 No 🗹 Yes 🗌 9. Was preservative added to bottles? No 🗆 No VOA Vials 🗹 Yes 10. VOA vials have zero headspace? Yes 🗆 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗆 Yes 🗹 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? Yes 🗸 No \square 13. Are matrices correctly identified on Chain of Custody? No 🗌 Yes 🔽 14 is it clear what analyses were requested? Yes 🗹 No 🗔 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗆 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date Not Good Not Present

HAII ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request	KO)	S'FO	DR(C)	9T + \ \ OS \(\frac{1}{1}\) OS \(\frac{1}{1}\) \(\frac{1}{1}\) OS \(\frac{1}{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(\frac{1}{1}\) \(\frac{1}\) \(\frac{1}\	(GF)	TEX + MT TEH 8015B TEY + MT TPH 8015B TPH (Methors) SCRA 8 Methors (F,C) SCRA 9 Methors (F,C)	タノ						Remarks:		If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time:	Standard □ Rush Standard □ Rush	Project Name:	たのしてア	Project #:		Project Manager:	Mika Kistor	11/10 DANIE	Confee: 11 DATE	Sample Temperature ARP TO Sample Temperature	Container Preservative HEAL No.	100-						Received by: Date Time County (125/17 (USE	Received by: Date Time	ontracted to other accredited taboratories. This serves as notice of th
Chain-of-Custody Record	ient: EDCO: Mater		31ling Address: PO BOX 370	5080,000 NM 87015	1. KO5-228-62	Fax# mbutter Ocpusion	ige:	Standard	NELAP Other	EDD (Type))ate Time Matrix Sample Request ID	1.17 1100 EFF JUENT						te: Time: Relinguished by:	ie: Time: Relinquished by:	If necessary, samples submitted to Hall Environmental may be subco



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 07, 2017

Mike Butler

EPCOR Water

PO Box 370

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP OrderNo.: 1702A67

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Artyl

4901 Hawkins NE

Albuquerque, NM 87109



Hall Environmental Analysis Laboratory

4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com **Case Narrative**

WO#:

1702A67

Date:

3/7/2017

CLIENT:

EPCOR Water

Project:

EWWTP

Analytical Comments Regarding BOD:

The method blank(s) had a DO depletion >0.2mg/L.

Analytical Report Lab Order 1702A67

Date Reported: 3/7/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: EWWTP

Collection Date: 2/23/2017 12:00:00 PM

Lab ID: 1702A67-001

Matrix: AQUEOUS

Received Date: 2/23/2017 2:52:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD	<u> </u>				Analys	st: tnc
Biochemical Oxygen Demand	DO Depletion <2.0	2.0	mg/L	1	3/1/2017 1:23:00 PM	30380
SM 9223B FECAL INDICATOR	R: E. COLI MPN				Analys	st: tnc
E. Coli	<1	1.000	MPN/100mL	1	2/24/2017 4:42:00 PM	1 30374

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 4
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1702A67

07-Mar-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-30380

SampType: MBLK

TestCode: SM5210B: BOD

Client ID: PBW

Batch ID: 30380

RunNo: 41085

Prep Date: 2/24/2017

Analysis Date: 3/1/2017

SeqNo: 1286989

Units: mg/L

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual

Biochemical Oxygen Demand

ND 2.0

Sample ID MB-30380

SampType: MBLK Batch ID: 30380

TestCode: SM5210B: BOD

Client ID: PBW

ND

Result

Result

140

RunNo: 41085

Prep Date: 2/24/2017 Analysis Date: 3/1/2017

SeqNo: 1286990

Units: mg/L

%RPD

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

RPDLimit

Qual

Biochemical Oxygen Demand

Client ID: LCSW

Sample ID LCS-30380

SampType: LCS

Batch ID: 30380

PQL

2.0

TestCode: SM5210B: BOD

RunNo: 41085

Units: mg/L

123

Analyte

Prep Date: 2/24/2017

Analysis Date: 3/1/2017

SeqNo: 1286991 SPK value SPK Ref Val

%REC LowLimit HighLimit

59.3

%RPD **RPDLimit**

Qual

Biochemical Oxygen Demand Sample ID LCSD-30380 150 2.0 198.0

75.0 TestCode: SM5210B: BOD

RunNo: 41085

Prep Date: 2/24/2017

Client ID: LCSS02

Batch ID: 30380

Units: mg/L

HighLimit

Analyte

Analysis Date: 3/1/2017

SampType: LCSD

SeqNo: 1286992

LowLimit

%RPD

RPDLimit

Qual

Biochemical Oxygen Demand

PQL 2.0

198.0

SPK value SPK Ref Val

0

%REC 69.2

59.3

123

8.05

29.9

Qualifiers:

Value exceeds Maximum Contaminant Level.

Ð Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit R

RPD outside accepted recovery limits % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 4

Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1702A67

07-Mar-17

Client:

EPCOR Water

Project:

Client ID:

EWWTP

Sample ID MB-30374

SampType: MBLK

TestCode: SM 9223B Fecal Indicator: E. coli MPN

Batch ID: 30374 **PBW**

RunNo: 40988

SPK value SPK Ref Val

SeqNo: 1283706

Prep Date: 2/23/2017

Analysis Date: 2/24/2017 **PQL**

%REC LowLimit

Units: MPN/100mL

HighLimit

%RPD

RPDLimit

Qual

Analyte E. Coli

1.000

Result

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Page 4 of 4



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **EPCOR-EDGEWOOD** Work Order Number: 1702A67 RaptNo: 1 02/23/17 a l Received by/date: 2/23/2017 2:52:00 PM Logged By: Andy Jansson 02/23/17 Andy Jansson Completed By: 02/23/17 Reviewed By: Chain of Custody Yee 🗌 No 🗆 Not Present V 1 Custody seals intact on sample bottles? Yes V No 🗆 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In No 🗌 NA 🗆 Yes 🔽 4. Was an attempt made to cool the samples? No 🔽 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Samples were collected the same day and chilled. Sample(s) in proper container(s)? Yes 🔽 No 🗍 No 🗔 Yes V 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🗸 8. Are samples (except VOA and ONG) properly preserved? Yes \square NA 🗆 No 🔽 9. Was preservative added to bottles? Yes 🗌 No \square No VOA Vials 🗹 10. VOA vials have zero headspace? Yes 📙 No 🔽 11. Were any sample containers received broken? # of preserved bottles checked 12. Does paperwork match bottle labels? Yes 🗸 No 🗆 for pH: (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly Identified on Chain of Custody? No 🗆 14. Is it clear what analyses were requested? No 🗆 Yes 🗸 No 🗆 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) Yes \square 16. Was client notified of all discrepancies with this order? No 🔲 NA 🗹 Person Notified: Date By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date 8.8 Good Not Present

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$\ddot{\mathbf{o}}$	Client: FROOF WATER		Mailing Address:	Ž	Phone#	email or Fax#:	QA/QC Package:	□ Standard	Accreditation	□ EDD (Type)	a a													1		1
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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 2017

Mike Butler

EPCOR Water

PO Box 370

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP OrderNo.: 1703C25

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/23/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Artyl

4901 Hawkins NE

Albuquerque, NM 87109



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Case Narrative

WO#:

1703C25

Date:

4/6/2017

CLIENT:

EPCOR Water

Project:

EWWTP

Analytical Comments Regarding BOD:

The method blank(s) had a DO depletion >0.2mg/L.

Analytical Report

Lab Order 1703C25

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: EWWTP

Collection Date: 3/23/2017 10:30:00 AM

Lab ID: 1703C25-001

Matrix: AQUEOUS

Received Date: 3/23/2017 2:55:00 PM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
SM5210B: BOD	· -		_			Analys	t: SMS
Biochemical Oxygen Demand	DO Depletion<2.0	2.0		mg/L	1	3/29/2017 2:07:00 PM	30896
SM 9223B FECAL INDICATOR	: E. COLI MPN					Analys	t: tnc
E. Coli	<1	1.000		MPN/100mL	1	3/24/2017 5:10:00 PM	30875
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	750	25	*	mg/L	50	3/27/2017 11:02:52 PM	A41694
SM2540C MOD: TOTAL DISSO	LVED SOLIDS					Analys	t: KS
Total Dissolved Solids	2090	40.0	*D	mg/L	1	3/31/2017 4:08:00 PM	30994
SM 4500 NORG C: TKN						Analys	st: CJS
Nitrogen, Kjeldahl, Total	4.3	1.0		mg/L	1	3/30/2017 10:00:00 Al	M 30958

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703C25

06-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBW

Batch ID: A41694

PQL

RunNo: 41694

Prep Date:

Analysis Date: 3/27/2017

SeqNo: 1308322

%REC LowLimit

Units: mg/L

%RPD

HighLimit

RPDLimit

Qual

Analyte Chloride

ND 0.50

Result

Sample ID LCS

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSW

Batch ID: A41694

RunNo: 41694

Prep Date:

SeqNo: 1308323

Units: mg/L

Analysis Date: 3/27/2017

%REC

RPDLimit

Analyte

SPK value SPK Ref Val

SPK value SPK Ref Val

95.0

HighLimit

%RPD

Qual

110

Chloride 4.7 0.50 5.000

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 3 of 7

Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C25

06-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-1-30896

SampType: MBLK

TestCode: SM5210B: BOD

Client ID: PBW Batch ID: 30896

RunNo: 41776

Prep Date: 3/24/2017

Analysis Date: 3/29/2017

PQL

2.0

SeqNo: 1311347

Units: mg/L

Analyte

Result ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

RPDLimit

Quai

Biochemical Oxygen Demand

Sample ID MB-2-30896

PBW

SampType: MBLK Batch ID: 30896

TestCode: SM5210B: BOD

Prep Date: 3/24/2017 Analysis Date: 3/29/2017

RunNo: 41776 SeqNo: 1311348

Units: mg/L

Result

SPK value SPK Ref Val

%REC LowLimit

%RPD

Analyte

Client ID:

ND

PQL 2.0

HighLimit

%RPD

Qual

Biochemical Oxygen Demand

Sample ID LCS-30896

LCSW

SampType: LCS

210

Result

190

TestCode: SM5210B: BOD RunNo: 41776

115

Client ID: Prep Date:

3/24/2017

Batch ID: 30896 Analysis Date: 3/29/2017

SegNo: 1311349

Units: mg/L

Analyte

Result **PQL**

SPK value SPK Ref Val %REC

n

LowLimit

HighLimit

%RPD **RPDLimit** Qual

Qual

Biochemical Oxygen Demand

Sample ID LCSD-30896

Prep Date: 3/24/2017

SampType: LCSD

2.0

TestCode: SM5210B: BOD

104

LowLimit

Client ID: LCSS02

Batch ID: 30896

198.0

198.0

RunNo: 41776

95.7

46.8

HighLimit

Analyte Biochemical Oxygen Demand

Analysis Date: 3/29/2017

SeqNo: 1311350 %REC

Units: mg/L

115

RPDLimit 30.1

Client ID:

Sample ID 1703C25-001ADUP

SampType: DUP

PQL

2.0

TestCode: SM5210B: BOD

RunNo: 41776

Analyte

Prep Date: 3/24/2017

Effluent

Analysis Date: 3/29/2017

Batch ID: 30896

SeqNo: 1311352

Units: mg/L

RPDLimit Qual

20

Page 4 of 7

Biochemical Oxygen Demand

Result letion<2.0

2.0

PQL

SPK value SPK Ref Val

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD

%RPD

8.59

D

- Qualifiers: Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit RPD outside accepted recovery limits R
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Ε Value above quantitation range
- Analyte detected below quantitation limits J P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703C25

06-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-30875

SampType: MBLK

TestCode: SM 9223B Fecal Indicator: E. coli MPN

Client ID:

PBW

Batch ID: 30875

RunNo: 41668

Prep Date: 3/23/2017 Analysis Date: 3/24/2017

SegNo: 1307415

Units: MPN/100mL

Analyte

Result

PQL SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD

RPDLimit

Qual

E. Coli

<1 1.000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703C25

06-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-30994

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID:

Batch ID: 30994

RunNo: 41814

PBW

Prep Date: 3/30/2017

Analysis Date: 3/31/2017

SeqNo: 1312561

Units: mg/L **HighLimit**

Qual

Analyte Total Dissolved Solids Result **PQL** ND 20.0

%REC

%RPD

TestCode: SM2540C MOD: Total Dissolved Solids

Sample ID LCS-30994

SampType: LCS Batch ID: 30994

RunNo: 41814

Client ID: LCSW Prep Date: 3/30/2017

Analysis Date: 3/31/2017

SeqNo: 1312562

Units: ma/L

RPDLimit

Analyte

PQL Result

1000

%REC 102

LowLimit HighLimit %RPD

20.0

Qual

Total Dissolved Solids

1020

SPK value SPK Ref Val

SPK value SPK Ref Val

LowLimit

120

RPDLimit

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits J

Page 6 of 7

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Oualifiers:

D

S

% Recovery outside of range due to dilution or matrix

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703C25

06-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-30958

3/29/2017

SampType: MBLK

TestCode: SM 4500 Norg C: TKN

Client ID: PBW

Prep Date:

Batch ID: 30958

RunNo: 41766

Analysis Date: 3/30/2017

SeqNo: 1311135

Units: mg/L

Analyte

Result **PQL** SPK value SPK Ref Val

%REC LowLimit

TestCode: SM 4500 Norg C: TKN

HighLimit

%RPD

RPDLimit

Qual

Nitrogen, Kjeldahl, Total

ND 1.0

SampType: LCS

RunNo: 41766

Client ID: LCSW Prep Date: 3/29/2017

Sample ID LCS-30958

Batch ID: 30958 Analysis Date: 3/30/2017

SeqNo: 1311136

Units: mg/L

Analyte

PQL 9.8

98.0

120

%RPD

HighLimit

RPDLimit

Qual

Nitrogen, Kjeldahl, Total

1.0

10.00

SPK value SPK Ref Val

%REC LowLimit

Qualifiers:

Н

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

Holding times for preparation or analysis exceeded

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 7



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EPCOR-EDGEWOOD Work Order Nur	mber: 1703C25		RcptNo:	1
Received by/date: AS 75 17			 ,	
		and Allo		•
Logged By: Lindsay Mangin 3/23/2017 2:55:00		O Company		
Completed By: Lindsay Mangin 3/23/2017 3:19:14	I PM	July July D		:
Reviewed By: 40 03 23 17	<u> </u>	· + 		
Chain of Custody ()		_	_	
1. Custody seals intact on sample bottles?	Yes 🗆	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 📙	Not Present 🔲	
3. How was the sample delivered?	<u>Client</u>			
<u>Log In</u>				
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗆	na 🗆	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗆	No ☑	NA 🗌	
6. Sample(s) in proper container(s)?	s were collected the Yes 🗹	No	CHIII SO.	
,	-	_		
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No ∐		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🔽	No ∐ No 🗹	NA 🗆	
9. Was preservative added to bottles?	Yes 🗌	NO M	NA 🗆	
10. VOA viats have zero headspace?	Yes 🗀	No 🗆	No VOA Vials 🗹	
11, Were any sample containers received broken?	Yes	No 🗹 ··	# of preserved	······································
		No 🗀	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	NO L	(2) o	(>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	70
14. Is it clear what analyses were requested?	Yes 🗹	No 🔲		α
15. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	<u></u>
(If no, notify customer for authorization.)				
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified: De	ste			•
By Whom: Vi	a: 🔲 eMail 🔲 Pl	one 🗌 Fax	in Person	
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No. 1 11.9 Good Not Present	Seal Date	Signed By		

Chai	Client: FDLOC	•	Mailing Address:	Edeci	万英	email or Fax#: MbLX	OA/OC Package:	□ Standard	Accreditation		C EDD (Type)		Date Time	\$ 23 TO 170 20													3-23-17 1455	Date: Time:	ff necreason.
J-of-C	1 7	٠ ا	38: 70	122	822-50	Mout	ąi.		į				Metrix	A A		1											Kellman	Relinquished by	omnohe suhe
Chain-of-Custody Record	Water		BOX 370	J KM 87015	26233	had sure com		☐ Level 4 (Full Validation)					Sample Request ID	Trant T														ed by:	Ail or Lot Franchiston and the Miles
Turn-Around Time:	K Standard	Project Name	$ $ $t\omega\omega$	Project #:		Project Manager:	7 00	MIK	Sampler.	1. 20 Sec. 1.			Type and #														Roose	Received by:	another other on
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	Z	www.hallenvironmental.com	Albuquerque, NM 87109	ğ	Analysis	(%)S'	ЬO	NO ^s i				CRA i		╀	\dashv			_	┡	<u> </u>	ļ				_			
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Hall Environmental Analysis Laboratory
4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 10, 2017

Mike Butler

EPCOR Water

PO Box 370

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP OrderNo.: 1703D37

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/27/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com **Case Narrative**

WO#:

1703D37

Date:

4/10/2017

CLIENT:

EPCOR Water

Project:

EWWTP

Analytical Comments Regarding BOD:

The method blank(s) had a DO depletion >0.2mg/L.

Analytical Report

Lab Order 1703D37

Date Reported: 4/10/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Project: EWWTP

Lab ID:

1703D37-001

Client Sample ID: Effluent

Collection Date: 3/27/2017 10:30:00 AM

Matrix: AQUEOUS Received Date: 3/27/2017 2:15:00 PM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Analys	st: SMS
Biochemical Oxygen Demand	DO Depletion<2.0	2.0	mg/L	1	4/3/2017 1:26:00 PM	30951
SM 9223B FECAL INDICATOR	: E. COLI MPN				Analys	st: SMS
E. Coli	<1	1.000	MPN/100mL	1	3/28/2017 4:25:00 PM	30927
EPA METHOD 300.0; ANIONS					Analys	st: LGT
Nitrogen, Nitrite (As N)	ND	0.10	mg/L	1	3/27/2017 8:38:50 PM	R41697
Nitrogen, Nitrate (As N)	8.0	0.10	mg/L	1	3/27/2017 8:38:50 PM	R41697

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 5
- P Sample pH Not in Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703D37

10-Apr-17

Client: **EPCOR Water EWWTP** Project:

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R41697 RunNo: 41697

Prep Date: Analysis Date: 3/27/2017 SeqNo: 1308549 Units: mg/L

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual

Nitrogen, Nitrite (As N) ND 0.10 Nitrogen, Nitrate (As N) ND 0.10

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R41697 RunNo: 41697

Prep Date: Analysis Date: 3/27/2017 SeqNo: 1308550 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** LowLimit HighLimit Qual Nitrogen, Nitrite (As N) 0.94 0.10 1.000 93.6

Nitrogen, Nitrate (As N) 2.4 0.10 2.500 0 96.2 90 110

Sample ID 1703D37-001CMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: Effluent Batch ID: R41697 RunNo: 41697

Prep Date: Analysis Date: 3/27/2017 SeqNo: 1308576 Units: mg/L

Analyte **HighLimit** Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual

Nitrogen, Nitrite (As N) 0.87 0.10 1.000 76.7 87.1 103

Sample ID 1703D37-001CMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: Effluent Batch ID: R41697 RunNo: 41697

0.10

0.87

Prep Date: Analysis Date: 3/27/2017 SeqNo: 1308577 Units: mg/L

1.000

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0

87.4

76.7

Qualifiers:

Nitrogen, Nitrite (As N)

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits Page 3 of 5

0.275

103

20

Sample pH Not In Range

Reporting Detection Limit

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D37

10-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-30951

SampType: MBLK

TestCode: SM5210B: BOD

Client ID: **PBW** Batch ID: 30951

RunNo: 41919

Prep Date: 3/29/2017

Analysis Date: 4/3/2017 PQL

2.0

SeqNo: 1316417 Units: mg/L

Qual

Analyte

Client ID:

Result ND SPK value SPK Ref Val

%REC LowLimit **HighLimit** %RPD **RPDLimit**

Biochemical Oxygen Demand

Sample ID MB-30951

PBW

SampType: MBLK Batch ID: 30951

RunNo: 41919

TestCode: SM5210B: BOD

Analyte

Prep Date: 3/29/2017 Analysis Date: 4/3/2017

SeqNo: 1316418

Units: mg/L

RPDLimit

Biochemical Oxygen Demand

Result **PQL** ND 2.0 SPK value SPK Ref Val

%REC LowLimit

LowLimit

46.8

HighLimit

%RPD

%RPD

Qual

Sample ID LCS-30951 LCSW

SampType: LCS

TestCode: SM5210B: BOD

Batch ID: 30951

RunNo: 41919

Units: mg/L

115

Analyte

Client ID:

Prep Date: 3/29/2017

Analysis Date: 4/3/2017

Result

Result

130

190

198.0

SPK value SPK Ref Val

SeqNo: 1316419

%REC

HighLimit

RPDLimit

Qual

Biochemical Oxygen Demand

Sample ID LCSD-30951

Client ID: LCSS02

SampType: LCSD

PQL

2.0

TestCode: SM5210B: BOD

93.7

RunNo: 41919

Prep Date: 3/29/2017

Batch ID: 30951

SeqNo: 1316420

Units: mg/L

RPDLimit

Qual

Analyte

Analysis Date: 4/3/2017

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD

30.1

Biochemical Oxygen Demand

PQL 2.0

198.0

67.7

46.8

115

32.2

Qualifiers:

D

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix Holding times for preparation or analysis exceeded Н ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

E Value above quantitation range

Reporting Detection Limit

Analyte detected below quantitation limits J

Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703D37

10-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-30927

Prep Date: 3/27/2017

SampType: MBLK

TestCode: SM 9223B Fecal Indicator: E. coli MPN

Client ID: PBW

Batch ID: 30927

RunNo: 41809

Analysis Date: 3/28/2017

SeqNo: 1312473

Units: MPN/100mL

Analyte

PQL

SPK value SPK Ref Val %REC

LowLimit HighLimit

RPDLimit %RPD

Qual

E. Coli

<1 1.000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

Sample pH Not In Range

- Reporting Detection Limit
- Sample container temperature is out of limit as specified

Page 5 of 5



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

EPCOR-EDGEWOOD Work Order Number: 1703D37 RoptNo: 1 Received by/date: Logged By: Lindsay Mangin 3/27/2017 2:15:00 PM 3/27/2017 2:27:50 PM Completed By: Lindsay Mangin Reviewed By: Chain of Custody No 🗆 Not Present Yes 🗌 1. Custody seals intact on sample bottles? No 🗆 Not Present Yes V 2. Is Chain of Custody complete? Client 3 How was the sample delivered? Log In No 🗆 NA \square Yes 🔽 4. Was an attempt made to cool the samples? No 🗹 NA 🗆 5. Were all samples received at a temperature of >0° C to 6.0°C Samples were collected the same day and chilled. No 🗌 Yes 🗹 6. Sample(s) in proper container(s)? Yes 🗸 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗆 Yes 🗔 9. Was preservative added to bottles? No VOA Vials 🗹 No 🗆 10. VOA vials have zero headspace? Yes 🗀 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked for pH: Yes 🗹 No 🔲 12. Does paperwork match bottle labels? <2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes 🗸 13. Are matrices correctly identified on Chain of Custody? No □ Yes 🔽 14, is it clear what analyses were requested? Checked by: FNN No 🗆 Yes 🔽 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) No 🗆 Yes 🗌 NA 🗹 16. Was client notified of all discrepancies with this order? Date Person Notified: ☐ eMait ☐ Phone ☐ Fax ☐ In Person By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition | Seal Intact | Seal No | Seal Date Not Present 8.6 Good

(M to Y) selddug tiA **ANALYSIS LABORATORY** HALL ENVIRONMENTAL If necessary, samples submitted to Half Environmental may be subcontracted to other ecceeded laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-ime2) 0758 www.hailenvironmental.com Analysis Request (AOV) 80858 8081 Pesticides / 8082 PCB's Anions (F.CI, NO3, NO2, PO4, SO4) RCRA 8 Metals Tel. 505-345-3975 (SMIS 0758 to 0158) s'HA9 EDB (Method 504.1) (ORM \ ORO \ ORO) 83108 H9T MTBE + TPH (Gas only) MTBE + TMB's (8021) Time O Rush Preservative MIKEL Turn-Around Time: 2011 Project Manager. A Standard Project Name: EUN Container Type and # Project #: Sampler ☐ Level 4 (Full Validation) Sample Request ID Chain-of-Custody Record Mailing Address: 70 BOX Other Matrix tokenous email or Fax#: M Phone # KOL QA/QC Package: Time □ EDD (Type) Accreditation ☐ Standard O NELAP Date



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 28, 2017

Mike Butler EPCOR Water PO Box 370

Edgewood, NM 87015 TEL: (505) 228-6233

FAX

RE: EWWTP OrderNo.: 1704796

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/18/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1704796

Date Reported: 4/28/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: EWWTP

Collection Date: 4/18/2017 11:00:00 AM

Lab ID: 1704796-001

Matrix: AQUEOUS

Received Date: 4/18/2017 2:45:00 PM

Analyses	Result	POI. Ou	al Units	DE	Date Analyzed	Batch
Analyses	Result	TQL Q	ai Ollits	171	Date Analyzed	Daten
SM5210B: BOD					Analy	/st: SMS
Biochemical Oxygen Demand	DO Depletion<2.0	2.0	mg/L	1	4/24/2017 12:12:00 F	РМ 31306
SM 9223B FECAL INDICATOR	: E. COLI MPN				Analy	/st: tnc
E. Coli	<1	1.000	MPN/100mL	1	4/19/2017 5:00:00 Pt	M 31305

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704796

28-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-31306

SampType: MBLK

TestCode: SM5210B: BOD

Batch ID: 31306 PBW

RunNo: 42371

Prep Date: 4/19/2017

Analysis Date: 4/24/2017

PQL

2.0

Units: mg/L

Client ID:

SeqNo: 1332167

Qual

Analyte

Result

ND

Result

Result

140

ND

SPK value SPK Ref Val %REC LowLimit

%RPD HighLimit

RPDLimit

Biochemical Oxygen Demand Sample ID MB-31306

SampType: MBLK

TestCode: SM5210B: BOD

Prep Date: 4/19/2017

PBW

Batch ID: 31306

RunNo: 42371

Analysis Date: 4/24/2017

SeqNo: 1332168

Units: mg/L

RPDLimit

Analyte

Client ID:

PQL 2.0

SPK value SPK Ref Val %REC LowLimit

LowLimit 46.8

HighLimit

%RPD

%RPD

Qual

Biochemical Oxygen Demand

Client ID: LCSW

Sample ID LCS-31306

SampType: LCS Batch ID: 31306 TestCode: SM5210B: BOD

RunNo: 42371

115

Prep Date: 4/19/2017 Analyte

Analysis Date: 4/24/2017

SeqNo: 1332169

%REC

Units: mg/L HighLimit

RPDLimit

Qual

Biochemical Oxygen Demand

Client ID: LCSS02

Sample ID LCSD-31306

SampType: LCSD

PQL

2.0

TestCode: SM5210B: BOD

68.4

RunNo: 42371

Prep Date: 4/19/2017

Batch ID: 31306

85.1

Units: mg/L

RPDLimit Qual

Analyte

Analysis Date: 4/24/2017

SPK value SPK Ref Val

198.0

SeqNo: 1332170

%RPD

Biochemical Oxygen Demand

Result 170 2.0 SPK value SPK Ref Val

198.0

%REC 0

46.8

LowLimit

HighLimit 115

21.7

30.1

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded н

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R % Recovery outside of range due to dilution or matrix S

Analyte detected in the associated Method Blank В

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified Page 2 of 3

Hall Environmental Analysis Laboratory, Inc.

WO#:

1704796

28-Apr-17

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-31305

SampType: MBLK

TestCode: SM 9223B Fecal Indicator: E. coli MPN

Client ID: PBW

4/18/2017

Batch ID: 31305

RunNo: 42254

SeqNo: 1327710

Units: MPN/100mL

%RPD

Analyte

Prep Date:

Analysis Date: 4/19/2017

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

E. Coli

1.000

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Ê Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Page 3 of 3



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EPCOR-EDGEWOOD Work Order Number	r: 1704796		ReptNo: 1
		4	
Chain of Custody		🗆	
1. Custody seals intact on sample bottles?	Yes ∐	No ∐	Not Present ☑
2. Is Chain of Custody complete?	Yes 🗹	No 🗔	Not Present
3. How was the sample delivered?	Client		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗹	No 🗀	NA 🗆
Were all samples received at a temperature of >0° C to 6.0°C Samples were	Yes	No ✓ ne same day and	NA 🗆
6. Sample(s) in proper container(s)?	Yes 🗹	No □	, <u></u>
7. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗀	
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗆	
9. Was preservative added to bottles?	Yes 🗆	No 🗹	NA \square
10.VOA vials have zero headspace?	Yes 🗌	No 🗆	No VOA Viais 🗹
11. Were any sample containers received broken?	Yes 🗌	Na 🗹	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗆	for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No □	Adjusted?
14. Is it clear what analyses were requested?	Yes 🗹	No ∐	Checked by:
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No ∐	CHECKER BY.
Special Handling (if applicable)			🕞
16. Was client notified of all discrepancies with this order?	Yes 🗆	No U	NA 🗹
Person Notified: Date By Whom: Via: Regarding: Client Instructions:	eMail	Phone Fax	☐ In Person
17. Additional remarks:		-	
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 11.3 Good Not Present	Seal Date	Signed By	

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	HALL ENVIRONMENTAL	WAY DESIGNATION OF THE CARE	4901 Hawkins NE - Albuquerdue, NM 87109		Analysis	(*6	os'	Ю	(1.1) 20 072 1,5 OU,	8 14 8 16 9 (S)	o 0 lede N,IC	TPH (Methalper) PAH's (831 RCRA 8 Methalper) RCRA 8 Methalper) 8081 Pestic 8250 (5emi	XX									- - - - - - -	
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Turn-Around Time:	K Standard CRush	I	EWWT 1	oject #:		Project Manager:	1) CT ! M.	MIKE SICTIET	Sampler: M. BIAHL			Container Preservative Type and # Type	100-									eved by: 04 18 17 KUL	2
hain-of-Custody Record	EDLO LATER		Mailing Address: PORCX S70	ENGELOON NIN BYDIS PR	£ 505-328-6233	ex# Mostle- Deres con		dard 🗀 Level 4 (Full Validation)	Other.			Sample Request ID	IND ACRETIMENT	Total Control of the								Time Reinquished by:	
ن	Client: F		Mailing /	ENG	Phone #:	email or	OA/OC Package:	☐ Standard	Accreditation		L EUU (1996	Date	11-12-12					1				1-18-17 Date:	



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

May 25, 2017

Mike Butler

EPCOR Water

PO Box 370

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP OrderNo.: 1705842

Dear Mike Butler:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/16/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1705842

Date Reported: 5/25/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EPCOR Water

Client Sample ID: Effluent

Project: **EWWTP** Collection Date: 5/16/2017 2:20:00 PM

Lab ID:

1705842-001

Matrix: AQUEOUS

Received Date: 5/16/2017 3:23:00 PM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
SM5210B: BOD					Analy	/st: tnc
Biochemical Oxygen Demand	14	2.0	mg/L	1	5/22/2017 2:33:00 PI	M 31805
SM 9223B FECAL INDICATOR: E.	COLI MPN				Analy	/st: SMS
E. Coli	298.7	1.000	MPN/100mL	1	5/17/2017 6:35:00 Pt	M 31773

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 3 J
- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705842

25-May-17

Client:

EPCOR Water

Project:

EWWTP

Sample iD MB-1-31805

SampType: MBLK

TestCode: SM5210B: BOD

Client ID:

PBW

RunNo: 42965

Batch ID: 31805

Prep Date: 5/17/2017

Analysis Date: 5/22/2017 PQL

SeqNo: 1352034

Units: mg/L

Analyte

Result

SPK value SPK Ref Val %REC **HighLimit**

RPDLimit

Qual

Biochemical Oxygen Demand

Sample ID MB-2-31805

ND

SampType: MBLK

2.0

TestCode: SM5210B: BOD

Client ID: PBW

Batch ID: 31805

Result

Result

Result

Result

250

270

RunNo: 42965

Prep Date: 5/17/2017

Analysis Date: 5/22/2017

2.0

SegNo: 1352035

Units: mg/L

%RPD

Analyte

PQL

SPK value SPK Ref Val %REC

HighLimit LowLimit

LowLimit

%RPD

RPDLimit

Qual

Biochemical Oxygen Demand

ND

Sample ID LCS-31805

Client ID: LCSW

SampType: LCS Batch ID: 31805

RunNo: 42965

TestCode: SM5210B: BOD

46.8

115

Analyte

Prep Date: 5/17/2017

Analysis Date: 5/22/2017 **PQL**

2.0

SeqNo: 1352036

SPK value SPK Ref Val %REC

0

n

198.0

198.0

Units: mg/L LowLimit HighLimit

%RPD **RPDLimit**

Qual

S

Sample ID LCSD-31805

Client ID: LCSS02

Biochemical Oxygen Demand

SampType: LCSD Batch ID: 31805 TestCode: SM5210B: BOD RunNo: 42965

SeqNo: 1352037

136

LowLimit

46.8

Units: mg/L

HighLimit

%RPD

6.73

30.1

RPDLimit Qual

S

Biochemical Oxygen Demand

Prep Date: 5/17/2017

SampType: DUP

Analysis Date: 5/22/2017

POL

2.0

127 TestCode: SM5210B: BOD

%REC

Client ID:

Sample ID 1705842-001BDUP **Effluent**

Batch ID: 31805

RunNo: 42965

115

Prep Date: 5/17/2017

Analyte

Analysis Date: 5/22/2017

SegNo: 1352040

Units: mg/L

RPDLimit Qual

Page 2 of 3

Biochemical Oxygen Demand

15 2.0

POL

SPK value SPK Ref Val

SPK value SPK Ref Val

%REC LowLimit

HighLimit

%RPD 6.90

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit ND RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank В

E Value above quantitation range

Analyte detected below quantitation limits J

P Sample pH Not In Range Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Oualifiers:

D

% Recovery outside of range due to dilution or matrix S

Hall Environmental Analysis Laboratory, Inc.

WO#:

RPDLimit

1705842

25-May-17

Qual

Client:

EPCOR Water

Project:

EWWTP

Sample ID MB-31773

Prep Date: 5/16/2017

SampType: MBLK

TestCode: SM 9223B Fecal Indicator: E. coli MPN

Client ID: PBW

Batch ID: 31773

RunNo: 42917

SPK value SPK Ref Val %REC LowLimit

Units: MPN/100mL

HighLimit

Analyte

Analysis Date: 5/17/2017

SeqNo: 1350550

%RPD

E. Coli

Result PQL <1 1.000

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

Reporting Detection Limit

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL

Sample container temperature is out of limit as specified

Page 3 of 3



TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clien	t Name:	EPCOR-EDC	SEWOOD	Work Order Number:	170584	2		Rcp	tNo: 1
Recei	ived By:	Anne Thorr	t e	5/16/2017 3:23:00 PM		a.	ne Same	_	
Comp	oleted By:	Anne Thor		5/16/2017 3:48:10 PM		a	n. 1.	_	
Revie	wed By:	ENM		05/16/17@1	550)	2		
<u>Çhaiı</u>	n of Cus	tody							
1, C	ustody sea	ls intact on sa	mple bottles?		Yes [No 🗆	Not Present	_
2. Is	Chain of C	Custody compl	ete?		Yes	Z	No 🗆	Not Present	
3. н	low was the	sample deliv	ered?		Client				
<u>Log</u>	<u>In</u>								
4. v	Vas an atte	mpt made to	cool the samples'	•	Yes	¥	No 🗆	NA	
5. W	Vere all san	nples received	at a temperature	of >0" C to 6.0"C	Yes [_	No 🗹	NA Sabillad	
6 8	tamala(a) is	n proper conta	iner(s\?	<u>Samples wer</u>	Yes		No □	curiea.	
J . J	ounipio(o) «	i propor conta				_			
7. S	ufficient sa	mple volume f	or indicated test(3)?	Yes [3	No 🗆		
8. A	re samples	(except VOA	and ONG) prope	rly preserved?	Yes		No 🗆		
9. W	Vas preserv	vative added to	bottles?		Yes [No 🗹	NA	
10.V	'OA vials ha	ive zero head	врасе?				No 🗆	No VOA Vials	2
11. V	Vere any sa	ample contain	ers received brok	en?	Yes		No ☑ [# of preserved	
					[.	No. [bottles checke for pH:	
		vork match bo pancies on ch	ttle labels? ain of custody)		Yes	⊻ 1	No		(<2 or >12 unless noted)
•			itified on Chain of	Custody?	Yes E	7	No 🗆	Adjusted	
			ere requested?		Yes		No 🗆		
		ding times abl customer for a			Yes [2	No 🛄	Checked	by:
		M: (18 a.u.u							
		lling (if app			Yes [Na [7	NA.	D
16. W	Vas client n	othed of all di	screpancies with	this order?	Tes		No 📙	·	··
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TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 28, 2017

Manny Maldonado

EPCOR Water

PO Box 370

Edgewood, NM 87015

TEL: (505) 228-6233

FAX

RE: EWWTP OrderNo.: 1706A89

Dear Manny Maldonado:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/20/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Belyl

4901 Hawkins NE

Albuquerque, NM 87109